Wo	ŕk	Order	ID	81270
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\*81270\*

Page 1

March-12-12 3:	21:42 PM				() 1 /	7 ( )			,			· ·	
Revision ID:	D212-664-10				Accept	*N900	040	100	)* s	etup Start Stop	*N *N	S1* S2*	
Start Date:	12/03/2012	Start Qty: 1.0	00	*1*		Cust Item I	D:						
Required Date:	26/03/2012	Req'd Qty: 1.0	. 00	*1*		Customer:							
Reference:				·					_	<b>Q</b> :	• /		
Approvals:	Process Pla	in: MLJ	Date:	12/03/17	— Tooling:	Da	ite:		R	un Start	*N	R1*	
				1 . 1 .	SPC (Y/N):	Da	ate:			Stop	*N	R2*	
Sequence ID/ Work Center II	)	Operation Description	,	12	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty		Reject Number	Insp. Stamp	
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D212-664-141	Rev	D (DEO)		^						·			
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*120*		BENDING MACH	INE - CROSSTU	IBES								MO Km	
CNC Bend 2 CNC Alpha 160 Ben	nder			D212-664-141 u	\$0.00 sing CNC bender progra	nm 212-fw and						124-11	1

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W/O:			, V <sub>ket</sub> W	ORK ORDER C	HANGES	}			
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NCR:	WORK ORDER NON-CONFORMANCE (NCR)			· ·	•				
DATE.	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Action Desc	ription	Sign & Date	Verification C		Approval QC Inspector
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1-Drill pilot holes in tube as per Dwg D212-664-141 using drill Jig DT8548 &

DT8549,using drill table DT8577,set-up towers in hole #7 as per QSI 10

2-Ream hole to finish size in tube as per Dwg D212-664-141 using drill Jig
DT8548 & DT8549.Check dimensions between holes, both sides on both cuffs,

3-Scribe part # and batch # using vibrating stylus as per Dwg D212-664-1414-Deburr & Inspect for surface damage. Repair damage within limits as per

to ensure alignment with saddle holes.

Dwg D212-664-141

Crosstubes

12-4-11

Rm 12-4-12

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DATE	STED	Description of NC	Corrective Action Sec				Verific	ation		Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Descripti Chief Eng	on	Sign & Date	Section	on C	Chief Eng	QC Inspector
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Page 3

March-12-12 3:21:42 PM D212-664-101 Accept Item ID: \*N900040100\* Setup Start **Revision ID:** Item Name: Crosstube Fwd **Start Date:** 12/03/2012 Start Qty: 1.00 **Cust Item ID: Required Date: 26/03/2012** Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Date: \_\_\_\_\_ Approvals: Tooling: Date: Stop SPC (Y/N): Date: Date: Operation Sequence ID/ Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID **Description Run Hours** Code Qty **Qty** Number Stamp 150 Crosstubes Chemical Conversion 0.00 \*150\* HandFXtube 0.00 Memo Hand Finishing Crosstubes Chemical Conversion Coat within 24 hours of bending and drilling 160 QC5- Inspect part completeness to step on W/O 0.00 Cizlari7 \*160\* QC 0.00 Memo Quality Control 170 Outsource process - NDT per QSI038 4.1 0.00 CX 12/04/200 \*170\* 0.00 Memo

Outsource2

Outsource process - NDT

LPI as per ASTM 1417 Level 2

Attach copy of NDT results to work order

										-		
W/O:		·	WORK ORDER CHANGES									
DATE	STEP	PRO	CEDURE CHA	NGE	ı	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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DATE	STEP	Description of NC			tion B	<u> </u>			Approval	Approval		
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Work Orde		270	*81270*							Page		
Item ID: D212-664-101 Revision ID: Item Name: Crosstube Fwd				Accept	*N900	<b>040</b>	100	)*	Setup Star Stop		S1* S2*	
Start Date: Required Date: Reference:	12/03/2012 26/03/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:						
Approvals:	Process Pla	n:	Date:	_	Date:		I	Run Star Stop	"I <b>V</b>	R1* R2*		
Sequence ID/ Work Center II	D	Operation Description Receive & Inspect for Da Packaging	mage & Mat'l Certs	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
*180* Packaging Packaging		Memo	of NDT results attached	0.00 to work order.					<u> 13/4</u>	123 <u>(</u>		

190

QC5- Inspect part completeness to step on W/O

0.00

\*190\*

Memo

517/01/23

Quality Control

Inspect for damage & ensure results are as per Dwg D212-664-141

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Re		PAR #:	Fault Cat	egory:	NCR: Yes	No <b>DQ</b>	A:	_ Date: _	
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DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approvai
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Work Orde		270		*812	70*							Page 5	
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Item Name:	Crosstube Fwo	i			•					Stop	*N	S2*	
Start Date: Required Date: Reference:	12/03/2012 26/03/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1 <sup>*</sup>		Cust Item II Customer:	D:							
Approvals:		n:	Date:	Tooling: SPC (Y/N):		te:		]	Run	Start Stop	*N *N	R1*	
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Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty	•	Reject Number	Insp. Stamp	
<sup>200</sup> *200*		Spray Painting per QSI00 SprayPaint	)5 4.2	0.00				A	12	) - 4	- 26	76=	≽
SprayPaint		Memo		0.00									
Spray Painting		1-Prime insi	de and outside cross	tube as per QSI 005 4.2									
		2-Paint outs QSI 005 4.2		DEO D212-667-141 with Whit	e Imron as per			•					
		PRIME: \S Start Time:_ Fin sh Tim	10133 7 <u>145</u> e: <u>8130</u>	Clear: 120858 Start! 10100 Fingish! 11:00	OK Prisis					,			
		PAINT: 12 Start Time:_ Finish Time	4:00										
210		QC14- Inspect Spray Pai	nt	0.00				1					

0.00

Then, Wrap in plastic bag to protect from scratches

Quality Control

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Part No	: Dz/2-	-66-1-101 PAR #:	Fault Category: Cross to	K NCR: Yes	No DQ	A: XV	Date:	1/05/14
	R	_		QA: N/C C	losed: _(	X_	Date: <sub>[</sub> .	2/5/14
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NCR:	900	WC	ORK OR	DER NON-CONFORMANCE	(NCR)			
DATE	STEP	Description of NC Section A	Section A Initial Action Description Sign &					Approval QC Inspector
12/10/23	世 200	while working on weekend employee didn't have the who's Back From NoT/Recion And the Painters the entire teaders while forgoting about the mapped in window on the Bottom of the Berd.	Chief Eng	Strin entic tune: Prince + Maint As Per OSZOOS 4.2 + Duy:	Date A8 12-4-24 A3 12-4-25	12:04:91	U	(2/4/2)

Work Ord March-12-12 3		270		*812	270*				Page 6
Item ID: Revision ID: Item Name: Start Date:	D212-664-10 Crosstube Fwe 12/03/2012		*1*	Accept	*N90004	1010	<b>n</b> * :	Setup Start Stop	*NS1* *NS2*
Required Date	: 26/03/2012	<b>Req'd Qty:</b> 1.00	*1*		<b>Customer:</b>				
Reference:							_	D Storet	
Approvals:	Process Pla	ın:	Date:	Tooling:	Date:		ŀ	Run Start	*NR1*
·	QC:		Date:	SPC (Y/N):	Date: _			Stop	*NR2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID To	ool# Plan Code	Accept Qty		Reject Insp. Number Stamp
220		Crosstubes		0.00			40	10	
*720* Crosstubes		Memo		0.00				19-	4-27
Crosstubes	•	1-Abrade m clean the are 2-Install sup	ea with 4105S wash 'n'	ort and crosstube with 400 griwipe per DSI9563 and QSI 015	t sandpaper,			e.	
		3- Torque be	olts as per dwg	, ,					
230		QC6- Inspect dimension	s to drawing	0.00			//	1	- d4 - 30 O
*230* QC Quality Control		Memo	•	0.00			_a/		<u>- 04 - 30 U</u>
240		Pick Kit		0.00					
* <b>24</b> 0* Packaging		Memo		0.00				-	1210/1

Memo

Packaging

W/O:			ORK ORDER CHANG	GES						
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Work Orde		270		*812	70*						Page 7	
Item ID: Revision ID: Item Name: Start Date: Required Date: Reference:	D212-664-10 Crosstube Fwo 12/03/2012 26/03/2012		*1* *1*	Accept	*N900  Cust Item Customer	ID:	100	<b>)*</b> s	Setup Star	IV	S1* S2*	
Approvals:		n:		Tooling: _ SPC (Y/N):		Date:		R	tun Star Sto	, ''I <b>V</b> I	R1* R2*	
Sequence ID/ Work Center II 250 *250* QC Quality Control	)	Operation Description QC4- 100% Inspect kits Memo	for completeness	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
260 *260* Packaging Packaging		Packaging  Memo  Identify and	pack for shipping as per	0.00 0.00 <b>Reu</b> (	٦			(x		( =	80 05 03	1
270 *270* QC Quality Control		QC21- Final Inspection -	Work Order Release	0.00						MUS	12/05/04 VC 12.05-0	M

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## **Picklist Print**

March-12-12 3:21:45 PM

Page 1

Work Order ID: 81270

\*81270\*

Parent Item:

D212-664-101

\*D212-664-101\*

Parent Item Name: Crosstube Fwd

**Start Date:** 12/03/2012

**Required Date: 26/03/2012** 

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:E04.02.16ReformatKJ/DS

IPP Rev:F 06-03-29 Remove Coments on Pick List JLM

IPP Rev:G 07-04-30 As per Rev C

JLM

11.04.26 inspection strip can 11.540 EC worlfied by DD

	11.04.26 inspectio	n strip ech 11-549	EC v	erified by:DD								
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
D212-664-101TRN		Manufactured	No			110	Each	0.0000	1	1		100
*D212-664	4-101TF	₹N*		87	576				**	<u> </u>	/	12-4-10
D3595-063-450		Manufactured	No			230	Each	138.1095	4	4.210526		
*D3595-06 RUBBER CUSHION	63-450*					- t			**	<del></del>	A	12 - 4- 27
				Location		Loc (	<u>Otv</u>	Loc Code				
				LG051			88					
					80161)		88		_	<u>(y)</u>		
				MAT052		50.109	474					
					67353		2					

IPP Rev:H

Location .	Loc Qty	Loc Code	
LG051	88		
(19108)	88		<u>(y)</u>
MAT052	50.109474		
67353	2		
68893	6		**************************************
70113	0.56		
71354	0.2		
74113	0.349474		
75597	1		·
77678	40		***

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DATE	STEP	Description of NC		Corrective Action Section			ation	Approval	Approval
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Picklist Print March-12-12 3:21:45 PM									Page 2
Work Order ID: 81270  Parent Item: D212-664-101  Parent Item Name: Crosstube Fwd			1270* 212-664-1	<b>11</b> *			rt Date: 1 art Qty: 1	2/03/2012 .00	Required Date: 26/03/2012 Required Qty: 1.00
MS21920-25 *MS21920-25* Clamp(per MIL-DTL-8783C)	Purchased	No		220	Each	169.0000	4 <b>**</b>	4	A 12-4-27
D2893-1 *D2893-1* 2.75 Support	Manufactured	No	Location LG050  116264 117998 118142 119339 119746 120054 120475 120926  Location LG052  72865 76250 78561	220	169 2 4 4 2 2 5 50 100 Each	14.0000  Loc Code	2 <b>**</b>	2 2	Ad 12-4-27
D3428-1 *D3428-1* Placard	Manufactured	No	76301	240	11 Each	19.0000	i **	1	5/2 4
			<u>Location</u> ST042 78933	Lo	oc <b>Qty</b> 19 19	Loc Code		<del>/</del>	_ _

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Picklist Print • March-12-12 3:21:46 PM										Page 1
Work Order ID: 81270		*Q	1270*						* · · ·	
<b>Parent Item:</b> D212-664-101			212-664-	101*						
Parent Item Name: Crosstube Fwd		1.	// I/-nn4-	101"		Si	art Date: 1	2/03/2012	Required Da	ite: 26/03/2012
							start Qty: 1		Required Q	
AN6-35A	Purchased	No		240	Each	80.0000	1 d		required Q	<b>ity.</b> 1.00
	Purchased	140		240	Lacii	80.0000	**	4 -()		
*AN6-35A*							* *	34		
			<b>Location</b>	<u>L</u>	oc Qty	Loc Code				
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			120187		80			4	-	
AN6-36A	Purchased	No		240	Each	140.0000	4	4		
*AN6-36A*							**		<del></del>	
			Location	<u>L</u>	oc Qty	Loc Code				
			ST342		140				_	
			118422		2				_	
			119449		1				_	
			120187 120423		37 100			-4	_	
MS21042L6	Purchased	No	120423	240	Each	934.0000	6		_	
*MS210421 6*	ruichased	740		240	Lacii	734.0000	**	20		
			Location	<u>L</u>	oc Oty	Loc Code				
			ST300		934				_	
			117677		25				_	
			118384		3				-	
			118927		48			6	_	
			119075 120308	-	658 200				-	
AN960JD616 NAS1149D0663J	Purchased	No	22200	240	Each	0.0000	18	1.8	=	, 1
>*AN960.ID616*							**	sl m	121213	12/5/2

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DART AEROSPACE LTD	Work Order:	81270.
Description: Crosstube High Fwd (205/212/412)	Part Number:	D212-664-101
Inspection Dwg: D212-664-141 Rev: D		Page 1 of 1

Required Dimension	Min	Max
Height	26.79	27.05
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.7

0207 14.643 4.7%

1.5%

2.5%

2.7%

2.7%

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QC15 Inspection	8,
Date	17/04/11

Rev	Date	Change	Revised by	Approved
Α	07.02.06	New Issue	KJ/JM	
В	07.05.31	Dimensions updated per Dwg Rev C	KJ/JM , ,	
С	10.04.01	Dwg Rev updated	KJ SA	1
	*		,0	

W/O:			WC	ORK ORDER CHANG	GES	•				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No:		PAR #:	Fault Cate	gory:	,NCR: Yes	No DQ	A:	Date:		
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Item	Qty -141	Qty -141B	Part Number	Description
1	X		D212-664-141	CROSSTUBE ASSEMBLY (205/212/412 HIGH FWD)
2		Х	D212-664-141B	CROSSTUBE ASSEMBLY (214 HIGH FWD)
3	1	1	D6005-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
5	4	4	D3595-063-450	RUBBER CUSHION
6	4	4	MS21920-25	CLAMP (OR MS21920-26)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

#### **GENERAL NOTES:**

D

1) MATERIAL: MANUFACTURED FROM D6005-128 FINISHED LENGTH = 126.514±0.020

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

UNITS: INCHES UNLESS OTHERWISE NOTED.

IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS

PART IS SYMMETRIC ABOUT CENTERLINE.

10) BEND PROGRESSIVELY WITH A MINIMUM OF 3 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS

11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE

14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

SHOP COPY RETURN TO **ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER D. 81270 MLJ

REMOVED FROM WIDER REVIEW PER UNDER REVIEW CON #11-614

В

DEO ATTACHED

12/03/12 RELEASED

D	REORG TO CUP REMOV & B6-3);	ANIZED VIEW RENT STAND ED REF & ADI RELOCATED TURNING DE	GENERAL NOTES/PART LIST; S AND REFORMATTED DRAWING ARDS; ADD -1418 (ZN B4-2, D4-2); D TOLERANCES (ZN B4-3, C6-3, C8-3 FLAG #6 PER PAR 08-046 (ZN A5-3); TAIL & UPDATED TOLERANCE TO	RF	09.09.30
С	REMO	VE -851 ABRA	SION STRIP: ADD MAGNOBOND VERSE CLAMPS	РН	07.03.08
В.		OLES FOR CO	PH	05.02.04	
A	NEW IS	SSUE		PH	00.12.12
REV.			DESCRIPTION	BY	DATE
DESIGN		PH	DART AEROSP	ACE	LTD
DRAWN		RF	HAWKESBURY, ONTAR	O, CANA	ADA
CHECK	<b>≘</b> D	P	DRAWING NO.		REV. D
MFG. APPR.			D212-664-141	S	HEET 1 OF 4

DE APPR. DATE 09.09.30

APPROVED

XTUBE ASS'Y (205/212/412 HI FWD) COPYRIGHT @ 2000 BY DART AEROSPACE LTD

8

5

TITLE

SCALE

NTS

PAINT OUTSIDE PER DART OSI 005 4.2

BREAK SHARP EDGES: 0.005 TO 0.010 MAX.

WEIGHT: D212-664-141 = 33.6 lbs (PER IIN-D212-664) D212-664-141B = 33.6 lbs (PER IIN-D212-664)

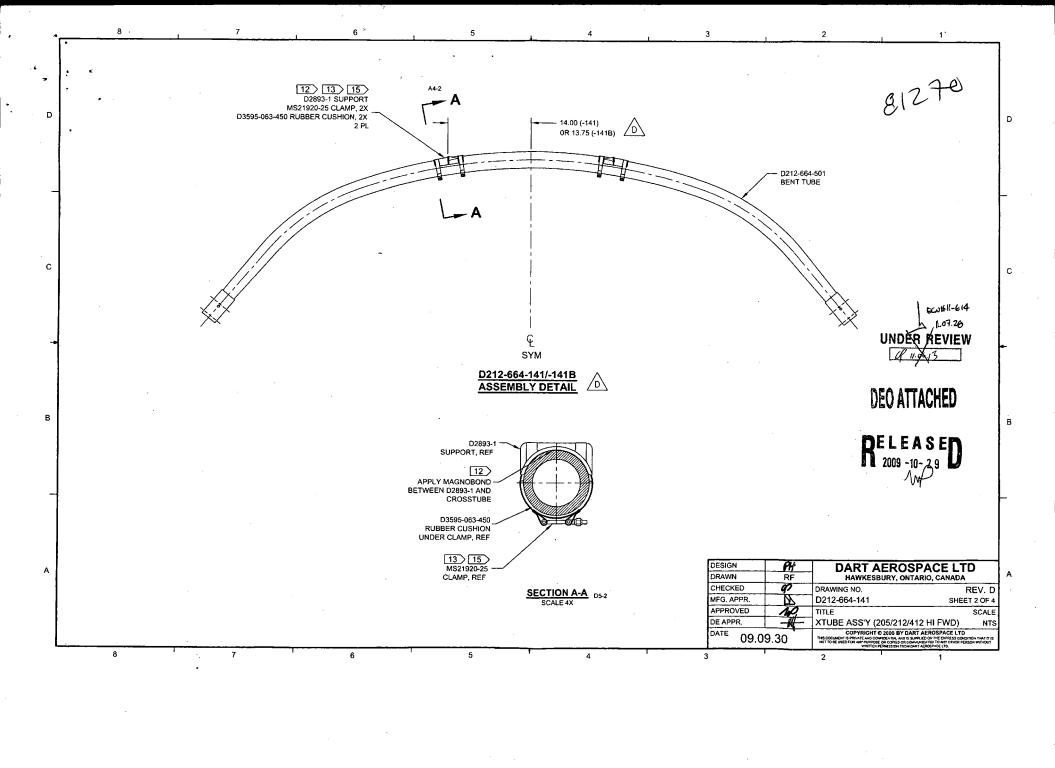
RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.

12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.

13) INSTALL MS21920-25 CLAMPS (OR -26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1

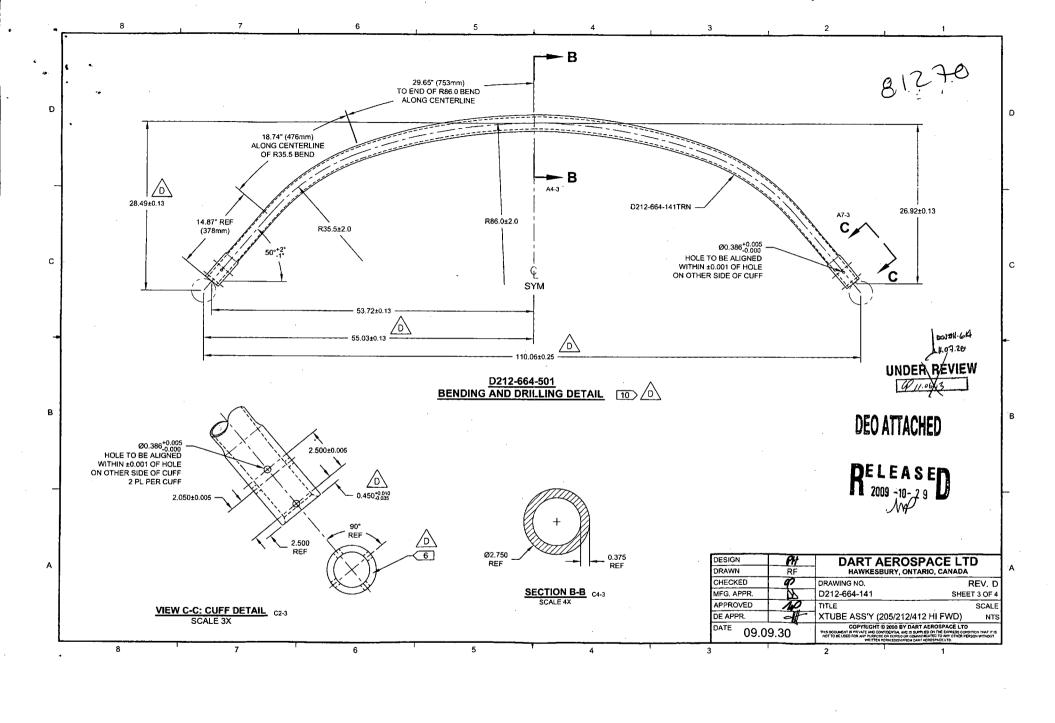
15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

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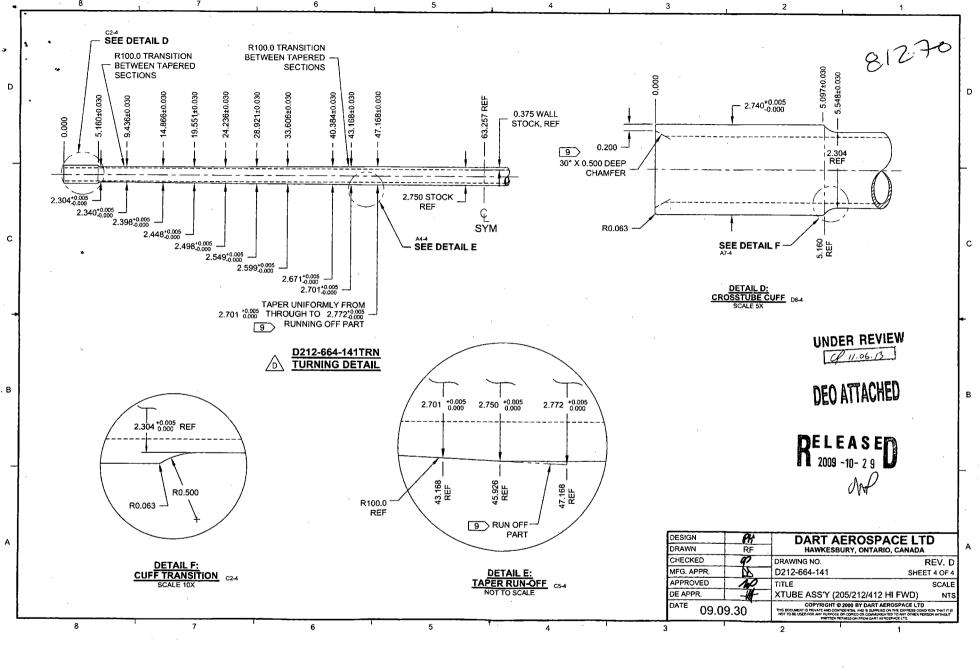


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DRAWING NO.	TITLE	REV. D DAR	TAEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-141	XTUBE ASSY (205/212/412 F	II FWD) ENG	INEERING ORDER	D212-664-141-D-1	SHEET 1 OF 2	NTS
DRAWN	CHECKED	MFG. A	PPR. C	APPROVED MY	DE APPR.	
DATE 11.0	4.07 DATE	DATE	11.04.12	DATE 11/54/12	DATE 11.04.17	

**PURPOSE:** 

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

<u> 18:</u>

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2

REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

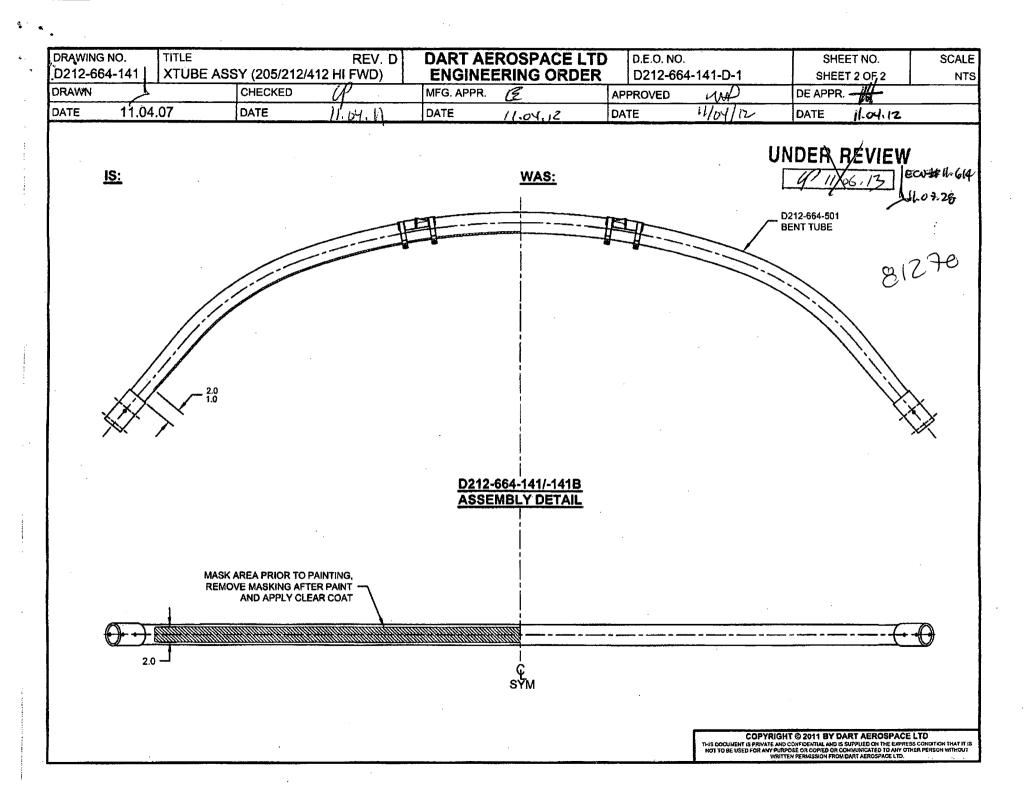
DELEASED 2011 -04- 18

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UNDER REVIEW

12 11.07.28

W/O:		WORK ORDER CHANGES										
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Dat	e Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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	:											
Part No:	<b>.</b>	PAR #:	Fault Cat	tegory:	NCR: Ye	s No	DQA:	Date: _				
	R	esolution:	Dispositi	ion:	QA: N/C	Closed:		Date: _				
NCR:		· • • • • • • • • • • • • • • • • • • •	VORK ORI	DER NON-CONFORM	IANCE (N	CR)						
DATE	STEP	Description of NC			ction B		erification	Approval	Approval			
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	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Date	Sectio	n C	Chief Eng	QC Inspector
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DRAWING NO.	TITLE REV. D	DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-141	CROSSTUBE ASS'Y (205 HI FWD)	ENGINEERING ORDER	D212-664-141-D-2	SHEET 1 OF 1	NTS
DRAWN //	CHECKED A>>	MFG. APPR.	APPROVED M	DE APPR.	
DATE 11.07	.15 DATE 11.07.20	DATE 11.00.21	DATE 1/07/2)	DATE 11 97.7	1

**PURPOSE:** 

REPLACE MAGNOBOND WITH PROSEAL.

CHANGE:

IS:

item	Qty -141	Qty -141B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

#### WAS:

7	A/R	. A/R .	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
. I	i			ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
				TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

#### IS

- 12) TO INSTALL D2893-1. SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04° TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

#### WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

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Dart Ae	rospace	<b>Ltd</b>			· · · · · · · · · · · · · · · · · · ·	•				
W/O:			V	VORK ORDER C	HANGES					
DATE	STEP	PRO	PROCEDURE CHANGE By			Ву	Date	Qty   Chief Eng	Approval Chief Eng / Prod Mgr	/ Shhiora
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DATE	STEP	Description of NC Section A	<b>Initial</b> Chief Eng	Corrective Action Action Desc	ription	Sign & Date	Verifica Section		Approval Chief Eng	Approva QC Inspecto
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LIENT ATTENTION ADDRESS PROJECT	LLODA, CHARLE	SPACE MENT THEN ST. 5 BULL ON WETDOUT WET	DATE ACUREN JOB NO PO/WO NO. WORK LOCATION ACCEPTANCE ST	145 ADDRES	PAGE OF TIME AM PM D  COLUMN  REV./DATA
rem(s) Examined	See Be	Zeo			
	PROCE  PROCE  PROCE  PROCE	DURE NO. LT-CESREV./D	MATERIAL ALC		REV./DATE JORDA HICKNESS
AETHOD AMILY BRAND PENETRANT PENETRANT REMOVE DEVELOPER DEVELOPER TYPE TEST SURFACE	ER 1730 MININ	UM DRY TIME >10		DFLASHLIGHT D TROUBLELIG	
SURFACE CONDITION SURFACE TEMPERATE	TURE - < - 4°C/20°F	☐ As Welded ☐ - 4°C/ 20°F to 10°0	MACHINED C/50°F	SHOT BLASTED  2 10°C/50°F TO 52°C/125	☐ CLEAN BARE METAL 5°F ☐ ≯62°C/125°F
RESULTS- TAMP CASSI 3 4 5 7 8 7 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8	METRIC Z IMI  COMMENT  WOD 831  WOD 830  WOD 830  WOD 830  WOD 817  WOD 817	82 93 83	ITAM ID ITAM ID ITAM ID ITAM ID ITAM ID ITAM ID	1-4-3-61-66 1	OF BL HET
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cope of Services  the agreement of Acuren G  we all descriptions comme	roup Inc. to perform services extends of an expressions of an information reflect	nly to those services provided for in writing the opinions or observations of Acurea Gro	g. Under no circumstances shall a	such services extend beyond the performance Lassumptions supplied by the owner/operato	c of the requested services. It is expressly understood or and are not intended nor can they be construed as

the air descriptions, comments and expressions of opinion reflect the opinions or observations of Acuren Group Inc. based on information and assumptions supplied by the owner/operator and are not intended nor can they be construed as presentations or warronties. Acuren Group Inc. is not assuming any responsibilities of the owner/operator and the owner/operator retains complete responsibility for the engineering, manufacture, repair and use decision, as a result of the standard of Care. In no event shall Acuren Group Inc. Is liability in respect of the services referred to herein exceed the amount paid for such services.

The performing the services provided, Acuren Group Inc. uses the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar location.

ices provided, Acuren Group Inc. uses the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or

apited, is made or intended by Acure	n Group Inc.		
BIGNATURES		La company of the com	
LIENT REPRESENTATIVE	Mother Abelsela	mi other phunelock	DTR# 284989
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JAME (PRINT):	/ his ISRBIERS		NAME INITIALS
	CGSB LEVEL SNT LEVEL CGSB REG. NO	CGSB LEVEL SNT LEVEL CGSB REG. NO	

W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Dowl Ma.				
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